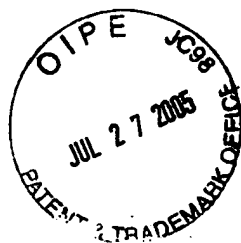


IFW



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: **Hiroshi KAWAZOE et al.**

Group Art Unit: **1753**

Serial No.: **10/505,416**

Filed: **June 13, 2005**

Confirmation No.: **7425**

For: **SUPPORT UNIT FOR MICROFLUIDIC SYSTEM AND
MANUFACTURING METHOD THEREOF**

Attorney Docket Number: **042717**

Customer Number: **38834**

REQUEST FOR CORRECTED FILING RECEIPT

Mail Stop: Missing Parts

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

Date: July 27, 2005

Sir:

Please supply the undersigned attorney with a corrected filing receipt for the above-identified application. The undersigned also respectfully requests that the Patent and Trademark Office records be amended to reflect the correction.

In reviewing the Official Filing Receipt, we noted errors in the **First Inventor's Information** and the **Title**. And we also noted that the **Assignee's Information** was not recorded. The Second Inventor's Information should read --Hiroshi KAWAZOE, **Tsukuba-shi, JAPAN**-- and the Title should read --MICRO FLUID SYSTEM SUPPORT UNIT AND MANUFACTURING METHOD THEREOF--. Also, the Assignee's Information should read --**HITACHI CHEMICAL CO., LTD., Tokyo, JAPAN**--. A copy of the **Declaration**, the **PCT**

Request for Corrected Filing Receipt
10/505,416
042717



Publication and the **Assignment** are enclosed which indicate the correct information. We are also enclosing a copy of the filing receipt with the corrections highlighted.

In the event any fees are required in connection with this paper, please charge Deposit Account No. 50-2866.

Respectfully submitted,

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP

A handwritten signature in black ink, appearing to read "Stephen G. Adrian".

Stephen G. Adrian

Attorney for Applicants

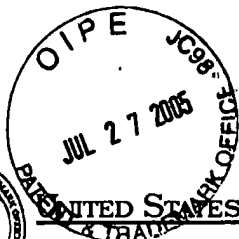
Registration No. 32,878

Telephone: (202) 822-1100

Facsimile: (202) 822-1111

SGA/if

Enclosures: Official Filing Receipt; Declaration; PCT Publication; Assignment



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART. UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/505,416	06/13/2005	1753	1634	042717	12	16	6

38834

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP
1250 CONNECTICUT AVENUE, NW
SUITE 700
WASHINGTON, DC 20036

JUN 29 2005

CONFIRMATION NO. 7425

FILING RECEIPT



OC000000016353614

Date Mailed: 06/24/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

:--Tsukuba-shi--:

Hiroshi Kawazoe, Haraki, JAPAN;
Akishi Nakaso, Oyama-shi, JAPAN;
Shigeharu Arike, Tochigi, JAPAN;

Please Insert { Assignment for Published Patent Application
:--HITACHI CHEMICAL CO., LTD., Tokyo, JAPAN--:

Power of Attorney: The patent practitioners associated with Customer Number 38834.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/02066 02/25/2003

Foreign Applications

JAPAN 2002-48580 02/25/2002
JAPAN 2002-292978 10/04/2002
JAPAN 2003-46414 02/24/2003

Projected Publication Date: 09/29/2005

Non-Publication Request: No

Early Publication Request: No

Title

Micro fluid system support and manufacturing method thereof

Preliminary Class

204

~~Unit~~
Please Insert**PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations

especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by
HITACHI CHEMICAL CO., LTD.

(Insert ASSIGNEE's
 Name(s) Address(es))

1-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 163-0449 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned
 ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title
 and interest to the invention entitled

(Title of Invention)

**SUPPORT UNIT FOR MICROFLUIDIC SYSTEM AND MANUFACTURING
 METHOD THEREOF**

(*If the assignment is
 being filed after the
 filing of the
 application, this
 section must be
 completed)

for which application for Letters Patent of the United States was executed on even date herewith
 unless otherwise indicated below:

* filed on _____ Serial No. _____

(Westerman, Hattori, Daniels & Adrian, LLP is hereby authorized to insert the series code, serial
 number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefore on said application or any
 continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for
 which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any
 continuation, divisional, reissue or reexamination applications thereof and also to execute separate
 assignments in connection with such applications as the ASSIGNEE may deem necessary or
 expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference,
 litigation, or other legal proceeding which may be declared concerning this application or any
 continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued
 thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing
 evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

Hiroshi Kawazoe
 (Signature)

Hiroshi KAWAZOE
 (Type Name)

September 10, 2004
 (Date)

Akishi Nakaso
 (Signature)

Akishi NAKASO
 (Type Name)

September 10, 2004
 (Date)

Shigeharu Arike
 (Signature)

Shigeharu ARIKE
 (Type Name)

September 10, 2004
 (Date)

 (Signature)

 (Type Name)

 (Date)

 (Signature)

 (Type Name)

 (Date)

 (Signature)

 (Type Name)

 (Date)

NO LEGALIZATION REQUIRED

(19) 世界知的所有権機関
国際事務局



(43) 国際公開日
2003 年 8 月 28 日 (28.08.2003)

PCT

(10) 国際公開番号
WO 03/070623 A1

(51) 国際特許分類⁷: B81B 1/00,
B81C 5/00, G01N 37/00, B01J 19/00

(21) 国際出願番号: PCT/JP03/02066

(22) 国際出願日: 2003 年 2 月 25 日 (25.02.2003)

(25) 国際出願の言語: 日本語

(26) 国際公開の言語: 日本語

(30) 優先権データ:
特願2002-48580 2002 年 2 月 25 日 (25.02.2002) JP
特願2002-292978 2002 年 10 月 4 日 (04.10.2002) JP
特願2003-46414 2003 年 2 月 24 日 (24.02.2003) JP

(71) 出願人 (米国を除く全ての指定国について): 日立化成工業株式会社 (HITACHI CHEMICAL CO., LTD.) [JP/JP]; 〒163-0449 東京都新宿区西新宿二丁目 1 番 1 号 Tokyo (JP).

(72) 発明者; および

(75) 発明者/出願人 (米国についてのみ): 河添 宏 (KAWAZOE, Hiroshi) [JP/JP]; 〒308-8521 茨城県下館市大字小川1500番地 日立化成工業株式会社 総合研究所内 Ibaraki (JP). 中相 昭士 (NAKASO, Akishi) [JP/JP]; 〒308-8521 茨城県下館市大字小川1500番地 日立化成工業株式会社 総合研究所内 Ibaraki (JP). 有家 茂晴

(ARIKE, Shigeharu) [JP/JP]; 〒308-8521 茨城県下館市大字小川1500番地 日立化成工業株式会社 総合研究所内 Ibaraki (JP).

(74) 代理人: 三好 秀和 (MIYOSHI, Hidekazu); 〒105-0001 東京都港区虎ノ門一丁目2番3号 虎ノ門第一ビル9 階 Tokyo (JP).

(81) 指定国 (国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) 指定国 (広域): ARIPO 特許 (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI 特許 (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

添付公開書類:

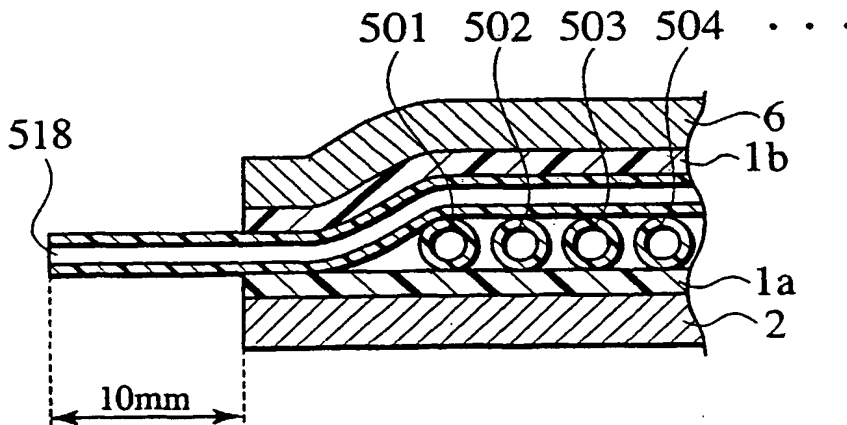
— 国際調査報告書

— 請求の範囲の補正の期限前の公開であり、補正書受領の際には再公開される。

[続葉有]

(54) Title: MICRO FLUID SYSTEM SUPPORT UNIT AND MANUFACTURING METHOD THEREOF

(54) 発明の名称: マイクロ流体システム用支持ユニット及びその製造方法



(57) Abstract: A micro fluid system support unit includes a first support body (2), a first adhesive layer (1a) arranged on the surface of the first support body (2), a first hollow filament group consisting of a plurality of hollow filaments (501 to 508) arranged with an arbitrary shape on the surface of the first adhesive layer (1a), a second hollow filament group consisting of a plurality of hollow filaments (511 to 518) arranged in the direction orthogonal to the first hollow filament group, a second adhesive layer (1b) arranged on the surface of the second hollow filament group, and a second

support body (6) arranged on the surface of the second adhesive layer (1b). The first and the second hollow filament group constitute a flow passage layer.

[続葉有]